

ABSTRACT OF THE DISCLOSURE

The present invention provides a real-time distributed system which can improve productivity of software by suppressing a volume of software change
5 incident to change in the system configuration, and can send or receive a message requested to be sent or received corresponding to its priority.

A middleware is contained in each of control units. Services of the middleware in each of the control units are
10 as follows, that is, 1. tasks T1, ..., Tn for executing starting AP modules and calling RT communication processing according to starting order information and the like in AP configuration information, and 2. RT communication service for executing sending and receiving messages Msg1, ...,
15 Msgn between the AP modules corresponding to the calling. The AP configuration information and the messages are generated by an information processor based on user defined information and transmitted to each of the units by on-line or off-line.

20 Further, the real-time distributed system comprises a network controller for executing network communication by storing a plurality of sending and receiving messages, a network driver for executing network communication using the network controller, a network driver priority
25 management means for determining priority of processing of the network driver corresponding to priorities of sent and received messages to be handled, and a scheduling means for

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
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